AUTOMOTIVE SECTION

## FIND TRUCK'S VALUE BY TON MILEAGE

AUTOMOTIVE SECTION

# BY TON-MILEAGE

Careful Record of Haulage Shows Worth of Motor Over Horse.

compute in order to be able to make proper estimates of truck performis in a position to compare the operating costs of the various makes of the purposes required. trucks in his fleet or to compare the coat of truck haulage with horse and

age is very simple, says the United by dividing the number of tons hauled States Tire Company. In making the by the number of deliveries. If a computation it is apparent that two truck carrying four tons made five sidered, one case being where the trip would be four-fifths. This rewhole load is carried the full distance sult multiplied by the total mileage and the other where parts of the load for the trip gives the ton miles for are taken off or put on at various the trip. For instance, if the truck in points along the trip.

Two Units of Measurement. ust as there are these two kinds fifths, or sixteen. f loads, there are two units of measurement. For the load that is carried

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the full distance there is the measurement known as the absolute tonmile, and for the load that is dropped piecemeal in the truck's journey there s the commercial ton-mile.

The absolute ton-mile is a ton carried one mile. If a truck carries four tons one mile the ton mileage is four, or if one ton goes four miles the tonmileage is four. Four tons carried four miles makes sixteen ton miles. This method of computation is so simple that the truck owner can readily work out his ton-mileage on trucks that leave the whole load at

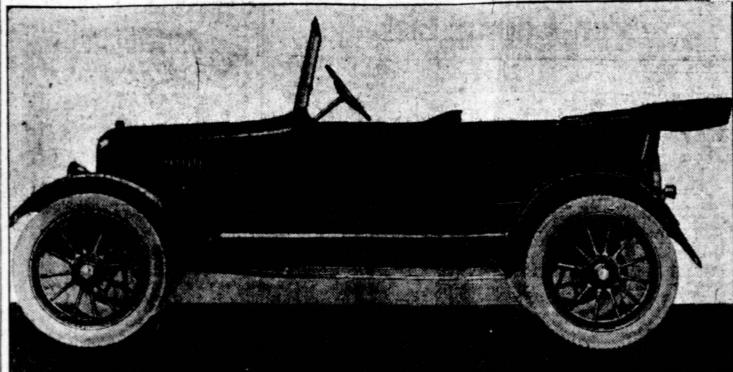
the end of the trip. But for the trucks that make partial deliveries the commercial tonmile has been adopted as the unit of measurement. As most trucks oper-Ton-mileage is one of the things a ate under this plan this is the unit truck owner ought to know how to which will be employed in most cases. In order to obviate the necessity of weighing the goods taken off at each delivery a simple rule of averages has ton-mileage of each of his trucks he been devised which gives the tonmiles with sufficient exactness for

Take Average Tons

The first step in arriving at the The method of computing ton-mile- pute the average tons. This is found tetheds of hauling must be con-deliveries, the average tons for the question traveled twenty miles, the ton-miles would be twenty times four

There are some truck operators whose cargoes are entirely of one

## The New Overland Four



This is the car that was surrounded with so much mystery before it was announced to the public. It is handled by the Harper-Overland people, 1128-1130 Connecticut avenue northwest.

dles or kegs-and for these the tonmile unit would not be so serviceable as a single unit of the goods they carry. For these the same measure of haulage may be effected by substituting for the ton the unit best suited to measure their delivery sys-

### ADVERTISING BUILT BIG BUSINESS IN FEW YEARS Patrons Insist on Solid Comfort

How "hard work, advertising and more hard work" built up a tire business in two and one-half years that now is housed in three modern buildings, is told in the September issue of the Firestone Magazine, published by the Firestone Tire and Rubber Com-

pany, of Akron, Ohio.

The business belongs to Kenneth Apoplant, of Jersey City and New York city. He started it, according to the magazine, with an idea, \$112.50, and an abundance of American "nerve." At first a corner in a dining room was his office. Today he has two solid tire service stations, a wheel building and repair shop, and a vulcanizing and pneumatic tire

"Advertising and reinvestment of the profits deserve a large part of the credit," Mr. Apoplant is quoted as saying, when asked to give the reason for the phenomenal growth of his business.

11 to 6 Tons

In Fall and Winter Months.

motor car production this season is the trend toward car heaters. Twenty motor car manufacturers are equipping all or part of their line of closed

Comfort being one of the principal features of owner interest car heat-

Closed cars particularly have al ways been sold on the basis of comfort and all-year use. Inasmuch as warmth is essential to comfort in fall and winter, the agrument is advanced that a non-heated automobile is very much like a nouse without a furnace

demand for car heaters from oper

Viewed from this angle, the car heater will do much toward solving the winter storage problem for manu-facturer and dealer. This season there is a big shortage in closed car production, and it is a serious mater for dealers who have an abundance of closed car prospects and an alarming scarcity of closed cars to

Worthy Substitutes. Dealers unable to take care of their

closed car prospects in many cases may be able to induce the prospect to accept a touring car equipped with well fitting curtains and a heater as worthy substitute to meet the situa-There is also a vast number of mo-

tor car buyers who cannot afford to pay the additional price of a closed their car. In this case, also, car heaters have an unusually strong appeal. It seems but a logical step to carry are obliged to be out in all kinds of their personal comfort should affect of motor trucks is now equipping his cab bodies with well fitting side curtains and installs as standard equipment a compact and efficient heater using the exhaust gas from the mo-

From a variety of viewpoints, it appears that car heaters are destined to become a decided factor in the au- of the most important assets which tomobile field and their universal use the West has. But national expendis but a matter of a short time.

One of the outstanding features o cars with car heaters.

This may be regarded as an indication that before long a heater will be considered as a necessary part of standard equipment to the same ex tent as a starter.

ers are certain to have a strong appeal to car owners and influence their decision in purchasing a car.

and dependent only on its walls and roof for protection.

## NATIONAL ROADS

Concentration of Government ance, and adequate provisions for they get results. their maintenance, is a development that it cannot be handled by any one Men's Exposition and convention, which is sorely needed in the West-group. There is enough work for all which will occupy the week of New their maintenance, is a development which is sorely needed in ... J. Ehr- of us.
ern country, according to T. J. Ehr- of us.
The Colorado commission is Colorado.

So acute has the situation become under the operation of the present Federal aid act that it is Mr. Ehrhart's opinion that a continuance of the present policy will find Colorado State highways rapidly detoriating from enforced neglect, with here and there detached stretches of well improved roads, which will exaggerate the condition of the many miles of highways poorly maintained.

"The Federal aid program in 1919-20 in Colorado, includes 117 projects," said Mr. Ehrhart. "These have a total mileage of 882, and total cost estimates of \$5,425,000, 50 per cent of which will be required from State funds, which will absorb every available dollar. There are approximately 8,000 miles of State highways, and deducting the mileage to be improved under Federal aid, there will remain 7,117 miles of State roads without financial provision for construction or proper maintenance.

Tourist Traffe.

"Growing tourist or truck traffic is hammering away at our highways, making it absolutely necessary that we have constant and continuous maintenance. The situation is fast becoming an impossible one and it cannot find relief in an increase in Federal Aid Funds, unless there is a distinct revision in Federal policy, and the States be permitted to construct longer sections of road not used for the carriage of mails.

"A study of the situation has con vinced me that the first step which should be taken is the construction of a national highway system by the Na tional Government. The Government should then protect this system by car, and who require all-year use of maintaining it. This would release our State funds and permit us to undertake construction and maintenance of State highways. If the Govern the car heater to the truck field, ment should decide to give us aid in Drivers of delivery cars and trucks this, too, so much the better, but some relief must be granted from the presweather, and it is only natural that ent law. The Western country is too sparsely settled and valuations too their efficiency. One manufacturer low to permit of a continued increase in funds for construction only.

Through Roads Needed. "The great need of the West today a heavy traffice. We can't raise funds for them by taking the visitors who use them most, because to do so would be to check travel, and travel is one ture on main roads would equalize the

open up the Western country with

surprising rapidity. "There are some, of course, who would rather see State highway departments in full charge. I disagree with this viewpoint. The need is roads; the method of operation is secondary. The people of our country are not going to ask whether it is the State or the National department funds on roads of national import- which is building them, as long as

The problem is so large, so vital,

favor of legislation such as that contained in the Townsend bill, which provides for a National system and Federal commission, and it is our hope that Congress will see fit to act favorably upon this measure."

"WHOP"

Who rescues you when in distress Who spots the trouble quick?

Whose keen perception saves the day Who turns the clever trick? Who gruffly gives encouragement: Who scorns to camouflage

When, desperate, you bite the dust? The man from the garage!

Whom do you cuss when things go wrong? Whom bless, when things go right? ho gets the odium and praise? Who hates the man who's "tight?" Tho, speaking of his bill, resorts.

Vho makes us draw big sighschecks-The man from the garage.

To airy persiflage?

LOCK YOUR CAR

LOCK YOUR SPARE TIRES

There is to be a discussion of the good roads problem by numerous hotel men November 11, the day following the opening of the New York

vember 10, in Grand Central Palace

New York city. This is the fourth annual exposihotel and restaurant men from all parts of the country to the metropolia, and is considered an important get-together by the hotel interests The subject of good roads is one that is vitally important to the hotel in dustry, and to a material extent the hotels have received the co-operation of various automobile organizations. The work of the bureau of tours of the Automobile Club of America has been especially beneficial to the keepers of inns, taverns, and huge hos-

telries throughout the country.

During the next few years millions of dollars will be spent in various communities for the improvement and up-keep of roads, and considering the amount of trade which hotel men derive from automobile transients, it is quite natural that they should be interested in what is being done in the field of good road build-

problem to be discussed, and certain points to be argued, but one thing is certain—the hotel men at Grand Central Palace will boost for good roads and boost vigorously.



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